Parameter Overview

January 30, 2020

Introduction

This file contains the parameters we tuned for each specific algorithm. All parameters, which we changed from the default values, are listed.

Method	Parameters	Values
RGBDOdometry	MaxDepth	15
	MinDepth	0.3
	MaxDepthDiff	0.05
	MaxPointsPart	0.05
DVO	coarsest_level	5
	finest_level	1
	max_iterations	300
	influence_function_param	30
Fovis	fastth	15
	maxpl	4
	ftag	0.005
	fws	10
ICPOdometry	MaxDepth	15
	MinDepth	0.3
	MaxDepthDiff	0.25
	MaxPointsPart	0.03
RgbdICPOdometry	MaxDepth	5
	MinDepth	0.3
	MaxDepthDiff	0.25
	MaxPointsPart	0.23
CCNY	reg/ICPProbModel/min_correspondences	12
	reg/ICPProbModel/n_nearest_neighbors	20
	reg/ICPProbModel/max_assoc_dist_mah	13
	reg/ICPProbModel/max_corresp_dist_eucl	0.04
DVOSLAM	tracking/coarsest_level	5
	tracking/finest_level	1
	tracking/max_iterations	300
	tracking/scale_estimator_param	1
	tracking/influence_function_param	30
	tracking/mu	0
	tracking/precision	0.000005
	slam/max_rotational_distance	0.3
	slam/min_entropy_ratio	0.3
	slam/constraint_search_radius	0.6
	slam/constraint_min_entropy_ratio_coarse	0.70
	slam/constraint_min_entropy_ratio_fine	0.8
RTABMap	-	-
ORB-SLAM2	Camera.fx	927.7444458007812
	Camera.fy	928.2129516601562
	Camera.cx	655.3325805664062
	Camera.cy	361.226318359375
	Camera.width	1280
	Camera.height	720
	Camera.bf	13.640315374
	ORBextractor.scaleFactor	1.25
	ORBextractor.iniThFAST	20
	ORBextractor.minThFAST	6
	ORBextractor.nLevels	8
	ORBextractor.nFeatures	2500
RGBDSLAMv2	config/nn_distance_ratio	0.5
	config/ransac_iterations	500